

IAP7 Rec'd PCT/PTO 08 FEB 2006

PTO-1390 (Rev. 07-2005)

Approved for use through 03/31/2007. OMB 0651-0021
U. S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A SUBMISSION UNDER 35 U.S.C. 371		ATTORNEY'S DOCKET NUMBER 64851 (70904)
INTERNATIONAL APPLICATION NO. PCT/JP2004/011376	INTERNATIONAL FILING DATE 6 August 2004	U.S. APPLICATION NO. if known see 37 CFR 1.5 117567657
PRIORITY DATE CLAIMED 8 August 2003		
TITLE OF INVENTION ELECTROSTATIC SUCTION TYPE FLUID DISCHARGE METHOD AND DEVICE FOR THE SAME		
APPLICANT(S) FOR DO/EO/US Shigeru Nishio et al.		
Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:		
<p>1. <input checked="" type="checkbox"/> This is a FIRST submission of items concerning a submission under 35 U.S.C. 371.</p> <p>2. <input type="checkbox"/> This is a SECOND or SUBSEQUENT submission of items concerning a submission under 35 U.S.C. 371.</p> <p>3. <input checked="" type="checkbox"/> This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.</p> <p>4. <input type="checkbox"/> The US has been elected (Article 31).</p> <p>5. <input checked="" type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371(c)(2))</p> <ul style="list-style-type: none">a. <input checked="" type="checkbox"/> is attached hereto (required only if not communicated by the International Bureau).b. <input checked="" type="checkbox"/> has been communicated by the International Bureau.c. <input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US). <p>6. <input checked="" type="checkbox"/> An English language translation of the International Application as filed (35 U.S.C. 371(c)(2))</p> <ul style="list-style-type: none">a. <input checked="" type="checkbox"/> is attached hereto.b. <input type="checkbox"/> has been previously submitted under 35 U.S.C. 154(d)(4). <p>7. <input checked="" type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))</p> <ul style="list-style-type: none">a. <input type="checkbox"/> are attached hereto (required only if not communicated by the International Bureau).b. <input type="checkbox"/> have been communicated by the International Bureau.c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired.d. <input checked="" type="checkbox"/> have not been made and will not be made. <p>8. <input type="checkbox"/> An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).</p> <p>9. <input type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).</p> <p>10. <input type="checkbox"/> An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).</p>		
Items 11 to 20 below concern document(s) or information included:		
<p>11. <input checked="" type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98.</p> <p>12. <input type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.</p> <p>13. <input type="checkbox"/> A preliminary amendment.</p> <p>14. <input checked="" type="checkbox"/> An Application Data Sheet under 37 CFR 1.76.</p> <p>15. <input type="checkbox"/> A substitute specification.</p> <p>16. <input type="checkbox"/> A power of attorney and/or change of address letter.</p> <p>17. <input type="checkbox"/> A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821 – 1.825.</p> <p>18. <input type="checkbox"/> A second copy of the published International Application under 35 U.S.C. 154(d)(4).</p> <p>19. <input type="checkbox"/> A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).</p>		

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<table border="1"> <tr> <td colspan="2">The following fees have been submitted</td> <td>CALCULATIONS</td> <td>PTO USEONLY</td> </tr> <tr> <td colspan="2">21. <input checked="" type="checkbox"/> Basic national fee (37 CFR 1.492(a))..... \$300</td> <td>\$ 300.00</td> <td></td> </tr> <tr> <td colspan="2">22. <input checked="" type="checkbox"/> Examination fee (37 CFR 1.492(c)) If the written opinion prepared by ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4) \$0 All other situations \$200</td> <td>\$ 200.00</td> <td></td> </tr> <tr> <td colspan="2">23. <input checked="" type="checkbox"/> Search fee (37 CFR 1.492(b)) If the written opinion of the ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4) \$0 Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the USPTO as an International Searching Authority \$100 International Search Report prepared by an ISA other than the US and provided to the Office or previously communicated to the US by the IB \$400 All other situations \$500</td> <td>\$ 400.00</td> <td></td> </tr> <tr> <td colspan="2">TOTAL OF 21, 22 and 23 =</td> <td>\$ 900.00</td> <td></td> </tr> <tr> <td colspan="2"><input checked="" type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing in compliance with 37 CFR 1.821(c) or (e) or computer program listing in an electronic medium) (37 CFR 1.492(j)). The fee is \$250 for each additional 50 sheets of paper or fraction thereof.</td> <td></td> <td></td> </tr> <tr> <td>Total Sheets</td> <td>Extra Sheets</td> <td>Number of each additional 50 or fraction thereof (round up to a whole number)</td> <td>RATE</td> </tr> <tr> <td>171 - 100 =</td> <td>71 /50 =</td> <td>2</td> <td>x \$250.00</td> </tr> <tr> <td colspan="2">Surcharge of \$130 for furnishing any of the search fee, examination fee, or the oath or declaration after the date of commencement of the national stage (37 CFR 1.492(h)).</td> <td>\$ 130.00</td> <td></td> </tr> <tr> <td>CLAIMS</td> <td>NUMBER FILED</td> <td>NUMBER EXTRA</td> <td>RATE</td> </tr> <tr> <td>Total claims</td> <td>23 - 20 =</td> <td>3</td> <td>x 50.00</td> </tr> <tr> <td>Independent claims</td> <td>18 - 3 =</td> <td>15</td> <td>x 200.00</td> </tr> <tr> <td colspan="2">MULTIPLE DEPENDENT CLAIM(S) (if applicable)</td> <td>+ 360.00</td> <td>360.00</td> </tr> <tr> <td colspan="2">TOTAL OF ABOVE CALCULATIONS =</td> <td>\$ 5,040.00</td> <td></td> </tr> <tr> <td colspan="2"><input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by ½.</td> <td></td> <td></td> </tr> <tr> <td colspan="2"></td> <td>SUBTOTAL =</td> <td>\$ 5,040.00</td> </tr> <tr> <td colspan="2">Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)).</td> <td>\$</td> <td></td> </tr> <tr> <td colspan="2">TOTAL NATIONAL FEE =</td> <td>\$ 5,040.00</td> <td></td> </tr> <tr> <td colspan="2">Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property +</td> <td>\$</td> <td></td> </tr> <tr> <td colspan="2">TOTAL FEES ENCLOSED =</td> <td>\$</td> <td></td> </tr> <tr> <td colspan="2"></td> <td>Amount to be refunded:</td> <td>\$</td> </tr> <tr> <td colspan="2"></td> <td>Amount to be charged</td> <td>\$ 5,040.00</td> </tr> </table>			The following fees have been submitted		CALCULATIONS	PTO USEONLY	21. <input checked="" type="checkbox"/> Basic national fee (37 CFR 1.492(a))..... \$300		\$ 300.00		22. <input checked="" type="checkbox"/> Examination fee (37 CFR 1.492(c)) If the written opinion prepared by ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4) \$0 All other situations \$200		\$ 200.00		23. <input checked="" type="checkbox"/> Search fee (37 CFR 1.492(b)) If the written opinion of the ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4) \$0 Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the USPTO as an International Searching Authority \$100 International Search Report prepared by an ISA other than the US and provided to the Office or previously communicated to the US by the IB \$400 All other situations \$500		\$ 400.00		TOTAL OF 21, 22 and 23 =		\$ 900.00		<input checked="" type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing in compliance with 37 CFR 1.821(c) or (e) or computer program listing in an electronic medium) (37 CFR 1.492(j)). 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- a. A check in the amount of \$ _____ to cover the above fees is enclosed.
- b. Please charge my Deposit Account No. 04-1105 in the amount of \$ 5,040.00 to cover the above fees.
A duplicate copy of this sheet is enclosed.
- c. The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 04-1105. A duplicate copy of this sheet is enclosed.
- d. Fees are to be charged to a credit card. **WARNING:** Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038

NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.

SEND ALL CORRESPONDENCE TO:

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EDWARDS ANGELL PALMER & DODGE LLP
P.O. Box 55874
Boston, Massachusetts 02205
(617) 517-5508

David A. Tucker

SIGNATURE

David A. Tucker

NAME

CUSTOMER NUMBER: 21874

27,840

REGISTRATION NUMBER

10/567657

MAP20 Rec'd PCT/PTO 08 FEB 2006

Application No. (if known): Not Yet Assigned

Attorney Docket No.: 64851 (70904)

Certificate of Express Mailing Under 37 CFR 1.10

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Kathryn A. Grindrod
Signature

Kathryn A. Grindrod

Typed or printed name of person signing Certificate

Registration Number, if applicable

(617) 517-5534
Telephone Number

Note: Each paper must have its own certificate of mailing, or this certificate must identify each submitted paper.

Transmittal Letter to the United States Designated-Elected Office (3 pages)

Application Data Sheet (4 pages)

Specification Cover Sheet (1 page)

Specification excluding claims (131 pages)

23 Claims (15 pages)

Abstract (2 pages)

Formal Drawings (Fig 1a - Fig 32) (23 pages)

PCT/RO/101; PCT/ISA/210 (w/3 references); PCT/ISA/237; PCT/IB/304;

PCT/IB/308 (First Notice); PCT/IB/308; (Second and Supplementary

Notice); International Application Publication No. WO 2005/014180 A1;

Return Receipt Postcard

Information Disclosure Statement (3 pages)

Form PTO/SB/08a/b (1 page)

Authorization to charge \$5,040.00 to deposit account 04-1105